



Single-Use Tube Assemblies



COUPLING EXPERTISE WITH SPEED & SIMPLICITY™

 **Sterility
Assurance**





Single-Use Tube Assemblies



Ace Sanitary offers a broad line of single-use tubing assemblies and services for single-use pharma processing. With extensive experience working in the Pharmaceutical and BioPharma industries, and an ISO Class 7 clean room on-site at our manufacturing facility in Cincinnati, OH, Ace Sanitary provides made-to-order single-use products with no minimum order quantity. Our single-use tubing assemblies come in a variety of connection types made to your assembly specifications.

Ace Sanitary
Coupling Expertise With Speed & Simplicity™

SCT

Non-reinforced Silicone Tubing

SU/SCT is a platinum-cured clear silicone tubing produced in a ISO Class 7 clean-room environment for the bio-pharmaceutical industry. The production process is controlled by an ISO compliant quality system. Each production batch is assigned to a unique lot number for full lot traceability from raw material to finished goods. Specifically for use in critical biotech, pharmaceutical, cosmetic, biomedical and food applications and works well as peristaltic pump tubing.

Features:

- Meets or exceeds USDA and FDA 21 CFR 177.2600 regulation for contact with drugs and food (3A Sanitary Standard)
- Meets or exceeds USP Class VI (121° Celsius, 60 min), European Pharmacopoeia 3.1.9 (current version) ISO 10993 (3,9,6,10,11)
- Complete lot traceability of materials
- Has been manufactured with only platinum cured silicone materials
- Animal Derived Component Free(ADCF)
- Hardness Value of 50 durometer Shore A
- Temperature Range: -80 to 450° F
- Can be sterilized by autoclave or gamma irradiation (<50kGy)
- Available with validated Sterility Assurance Level of 10-6 by gamma irradiation per ISO 11137 Method Vdmax 25
- Certificate of Conformance provided with each lot under certification
- Complete validation package available upon request
- Molding capabilities available for custom applications
- Manufactured in an ISO 7 Certified clean room (class 10,000)

MODEL	ID	OD	WALL
SU/SCT062X187	1/16"	3/16"	1/16"
SU/SCT093X218	3/32"	7/32"	1/16"
SU/SCT093X343	3/32"	11/32"	1/8"
SU/SCT125X250	1/8"	1/4"	1/16"
SU/SCT125X312	1/8"	5/16"	3/32"
SU/SCT125X375	1/8"	3/8"	1/8"
SU/SCT156X281	5/32"	9/32"	1/16"
SU/SCT187X312	3/16"	5/16"	3/32"
SU/SCT187X375	3/16"	3/8"	1/8"
SU/SCT250X312	1/4"	5/16"	1/16"
SU/SCT250X375	1/4"	3/8"	1/16"
SU/SCT250X437	1/4"	7/16"	3/32"
SU/SCT250X500	1/4"	1/2"	1/32"
SU/SCT312X437	5/16"	7/16"	1/16"
SU/SCT312X500	5/16"	1/2"	3/32"
SU/SCT312X562	5/16"	9/16"	3/32"
SU/SCT375X500	3/8"	1/2"	1/8"
SU/SCT375X562	3/8"	9/16"	1/16"
SU/SCT375X625	3/8"	5/8"	3/32"
SU/SCT375X750	3/8"	3/4"	1/8"
SU/SCT500X625	1/2"	5/8"	1/16"
SU/SCT500X687	1/2"	11/16"	3/32"
SU/SCT500X750	1/2"	3/4"	1/8"
SU/SCT500X875	1/2"	7/8"	3/16"
SU/SCT750X875	3/4"	7/8"	1/16"
SU/SCT750X937	3/4"	15/16"	3/32"
SU/SCT750X1000	3/4"	1"	1/8"
SU/SCT750X1125	3/4"	1-1/8"	3/16"
SU/SCT875X1000	7/8"	1"	1/16"
SU/SCT875X1125	7/8"	1-1/8"	1/8"
SU/SCT1000X1250	1"	1-1/4"	1/8"
SU/SCT1000X1375	1"	1-3/8"	3/16"

STANDARD LENGTHS 25' - 50' - 100'

TUBE: Translucent Silicone, RoHS, 3-A* CLASS VI

RECOMMENDED CLEANING: ETO, SIP, Autoclave, Gamma

TEMP. RANGE: -80 to 450° F (-63° to +232° C)

*The 3-A 62-02, standard applies only to assemblies of 3/4" diameter and larger.

Ace Sanitary

FlexRite™



SU/SSD is a platinum-cured, braid reinforced silicone hose. This **High Purity Silicone** material resists weathering and temperature extremes making it ideal for repeated sterilization. Designed for **higher pressure** critical transfer applications within the biotech, pharmaceutical, cosmetic and food industries.

Provided with full lot traceability, SSD is produced in an ISO class 7 clean room and has undergone extensive physical, chemical, and biological testing and meets USP Class VI (87/88), FDACFR 177.2600, ISO 10993, European Pharmacopoeia 3.1.9 and 3A standards. Available with validated Sterility Assurance Level of 10 A-6 by gamma irradiation per ISO 1137 Method VDmax 25.

(For additional compliance data, please contact our customer service department)

Features:

- Ultra Flexible
- Light Weight
- Sterilizable
- Autoclavable
- Platinum Cured
- Braid Reinforced
- Rated for Higher Pressure
- Animal Derived Component Free (ADCF)
- Certificate of Conformance Provided with each lot
- Lot # Traceability available
- High Temp. Rated
- Molding capabilities available

Applications:

- Load Cell
- Cell Cultures
- BioPharma/Pharma
- Vessel or Tank Transfer

MODEL	I.D.	O.D.	WALL	WORKING PRESSURE	MIN. BEND RADIUS	LENGTH
SU/550012	1/s"	.345	.110"	175 PSI	.8"	50'
SU/550025	1/4"	.490	.120"	155 PSI	1.0"	50'
SU/550037	3/s"	.625	.125"	135 PSI	1.75"	50'
SU/550050	1/2"	.800	.150"	125 PSI	2.0"	50'
SU/55D062	5/s"	.965	.170"	105 PSI	2.5"	50'
SU/550075	3/4"	1.125	.187"	75 PSI	3.0"	50'
SU/550087	7/a"	1.235	.180"	75 PSI	3.5"	50'
SU/55D100	1"	1.375	.187"	55 PSI	4.0"	50'

TUBE FDA, 3-A*, USP Class VI silicone - Platinum cured
REINFORCEMENT Single ply polyester braid **RECOMMENDED**
(LEANING) CIP, SIP, Autoclave, Gamma, Gai

COVER Translucent
TEMP. RANGE -80 to 400°F



SSD Single Braid Discharge

ALLS-Series Products meet/comply: USPVI, USDA Class III requirements, FDACFR Title 21 177.2600, 3-A18-03 *The 3-A62-02, standard applies only to assemblies of 3/4" diameter and larger.

WARNING: Working pressure ratings for all Flex-Rite™ Products are based on 70°F (ambient temperature). Working pressure and vacuum ratings will decrease as temperatures increase. For "S" series applications that exceed 250°F contact manufacturer for suggestions.

Note: Ace Sanitary "S" series products are not intended for implantation and are not to be used for continuous steam applications.

For quickest response, send ALL request for quotes and purchase orders to: sales@acesanitary.com



SU/SCTP Clear Silicone Pump Tubing

Ace FlexRite Platinum-cured Silicone Pump Tubing is designed for peristaltic pumps and pinch valves. SU/SCTP is a platinum-cured clear silicone tubing produced in a clean-room for the biopharmaceutical industry. SU/SCTP undergoes an additional stabilization process that provides additional strength and performance.

FEATURES

- Meets or exceeds USP Class VI (121C), 60min) European Pharmacopeia 3.1.9 (current version) and ISO 10933 (3,5,6,10,11)
- Meets or exceeds USDA and FDA 21 CFR 177.2600 regulation for contact with drugs or food (#A Standards)
- Complete lot traceability of Materials
- Has been manufactured with only platinum cured silicone materials
- Animal Derived Component Free (ADCF)
- Hardness Value of 50 durometer Shore A
- Suitable for pump applications up to 24hrs in duration
- Temperature Range: -80F to 450F
- Can be sterilized by autoclave or gamma irradiation up to 50 kGy
- Available gamma irradiated
- Certificate of Conformance provided with each lot
- Available in 50ft, 100ft coils
- Custom sizes, lengths and packaging*
- Complete validation package*
- Molded End Capabilities available for custom applications
- Manufactured in an ISO 7 certified clean room

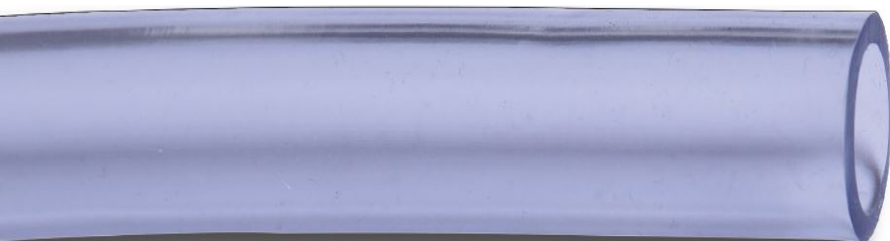
* Available upon request



Part Number	Inside Diameter (Reference ID)	Outside Diameter (Reference OD)	Wall	Pump Size	Standard Length
SU/SCTP062X188	1/16"	3/16"	1/16"	#14	50'
SU/SCTP062X250	1/16"	1/4"	1/32"	#119	50'
SU/SCTP125X250	1/8"	1/4"	1/16"	#16	50'
SU/SCTP125X312	1/8"	5/16"	3/32"	#03, #25	50'
SU/SCTP187X312	3/16"	5/16"	1/16"	#25	50'
SU/SCTP187X375	3/16"	3/8"	3/32"	#15	50'
SU/SCTP187X437	3/16"	7/16"	1/8"	---	50'
SU/SCTP250X375	1/4"	3/8"	1/16"	#17	50'
SU/SCTP250X437	1/4"	7/16"	3/32"	#24	50'
SU/SCTP250X500	1/4"	1/2"	1/8"	#26	50'
SU/SCTP312X500	5/16"	1/2"	3/32"	#35	50'
SU/SCTP375X562	3/8"	9/16"	3/32"	#36	50'
SU/SCTP375X625	3/8"	5/8"	1/8"	#73	50'
SU/SCTP375X750	3/8"	3/4"	1/16"	---	50'
SU/SCTP500X750	1/2"	3/4"	1/8"	#82	50'
SU/SCTP500X875	1/2"	7/8"	3/16"	#88	50'
SU/SCTP625X875	5/8"	7/8"	1/8"	---	50'
SU/SCTP625X1000	5/8"	1"	3/16"	#89	50'
SU/SCTP750X1125	3/4"	1-1/8"	3/16"	#191	50'
SU/SCTP750X1250	3/4"	1-1/4"	1/4"	#90	50'
SU/SCTP1000X1375	1"	1-3/8"	3/16"	#92	50'



FlexRite™



SU/AWT TPE tubing is designed specifically for the most demanding **bio-pharmaceutical** applications (It is ideal for use in **peristaltic pumps, single-use assemblies, process filling, and sampling devices** and is compatible with all common tube sealers and aseptic tube welders.) SU/AWT is exceptionally clear and has superior gas barrier properties and pressure performance vs. **silicone tubing**.

Features:

- Excellent with Heat Sealers/Welders
- Non-Pyrogenic, Non-Cytotoxic, Non-Hemolytic
- Resistant to Concentrated Acids & Alkalis
- Less Permeable and far less adsorbent than Silicone
- Low Platelet Adhesion & Protein Binding
- Ultra-Smooth Inner Bore & Kink Resistant
- Lot & Batch Traceability
- Excellent Gas Barrier Properties
- Bio-Compatible

Applications:

- Cell Culture Media & Fermentation
- Diagnostic Equipment
- Sterile Filling & Dispensing
- Medical Fluid/Drug Delivery
- Reagent Dispensing
- Peristaltic Pumps
- Buffer Prep Solutions

Packaging:

- Continuous Coils
- Pre-cut Lengths
- Custom Assemblies

Certification:

- USP Class VI
- BSE/TSE Compliant
- RoHS, REACH, 3-A* Compliant
- California Proposition 65 Compliant
- ISO 10993-4/5
- Reagent Dispensing

Validation Package Available on Request.

MODEL	I.D.	O.D.	WALL	LENGTH
SU/AWT125X250	1/8"	1/4"	1/16"	50' / 100'
SU/AWT187X312	3/16"	5/16"	1/16"	50' / 100'
SU/AWT187X375	3/16"	3/8"	3/32"	50' / 100'
SU/AWT250X375	1/4"	3/8"	1/16"	50' / 100'
SU/AWT250X437	1/4"	7/16"	3/32"	50' / 100'
SU/AWT250X500	1/4"	1/2"	1/8"	50' / 100'
SU/AWT312X375	5/16"	3/8"	1/32"	50' / 100'
SU/AWT312X437	5/16"	7/16"	1/16"	50' / 100'
SU/AWT312X500	5/16"	1/2"	3/32"	50' / 100'
SU/AWT375X500	3/8"	1/2"	1/16"	50' / 100'
SU/AWT375X562	3/8"	9/16"	3/32"	50' / 100'
SU/AWT375X625	3/8"	5/8"	1/8"	50' / 100'
SU/AWT500X750	1/2"	3/4"	1/8"	50' / 100'
SU/AWT625X875	5/8"	7/8"	1/8"	50' / 100'
SU/AWT750X1000	3/4"	1"	1/8"	50' / 100'
SU/AWT750X1125	3/4"	1-1/8"	3/16"	50' / 100'
SU/AWT1000X1250	1"	1-1/4"	1/8"	50' / 100'
SU/AWT1000X1375	1"	1-3/8"	3/16"	50' / 100'

Material Properties

	Value (English)	Value (SI)	Test Method
Specific Gravity	0.89	0.89	ASTM D792
Durometer, Shore A (5 sec.)	68	68	ASTM D2240
Compression Set (22 hr.)			

ALL MODELS AVAILABLE IN 50' & 100' LENGTHS

TUBE: 3-A* Class VI, FDA

TEMP. RANGE: -100° to 250° F

RECOMMENDED CLEANING: Ethylene Oxide, Gamma, Autoclave 275° F

*The 3-A62-02, standard applies only to assemblies of 3/4" diameter and larger.

SU/APT Pump Tubing

SU/APT is ideal for pharmaceutical, biological, food and beverage applications and provides superior performance in peristaltic pumps. Extruded from virgin, medical grade TPV to precise dimensional tolerances and provides an excellent alternative to silicone tubing. APT is lot & batch traceable and can handle multiple autoclave cycles.

Features:

- Superior pump life
- Low Particulate Spallation
- LowTOC
- Excellent Chemical Resistance
- Extremely Flexible

Applications:

- Peristaltic PumpTubing
- Filing Machinery
- Biological Media
- Sterile Transfer
- Buffer Solutions
- Solvents

Packaging:

- Continuous Coils
- Pre-cut Lengths
- Custom Assemblies

Certification:

- USP Class VI, US Pharmacopeia 43, ISO 10993
- CFR Title 21 Section 777, 1350 & 1520
- RoHS, REACH, 3-A* Compliant

MODEL	I.D.	O.D.	WALL	PUMP SIZE	LENGTH
SU/APT031X093	1/32"	3/32"	1/32"		50'
SU/APT031X156	1/32"	5/32"	1/16"	#13	50'
SU/APT062X125	1/16"	1/8"	1/32"		50'
SU/APT062X187	1/16"	3/16"	1/16"	#14	50'
SU/APT062X250	1/16"	1/4"	3/32"	#119	50'
SU/APT125X187	1/8"	3/16"	1/32"		50'
SU/APT125X250	1/8"	1/4"	1/16"	#16	50'
SU/APT125X312	1/8"	5/16"	1/16"		50'
SU/APT125X375	1/8"	3/8"	1/8"	#03	50'
SU/APT187X312	3/16"	5/16"	1/16"	#25	50'
SU/APT187X375	3/16"	3/8"	3/32"	#15	50'
SU/APT187X437	3/16"	7/16"	1/8"		50'
SU/APT187X500	3/16"	1/2"	5/32"		50'
SU/APT250X375	1/4"	3/8"	1/16"	#17	50'
SU/APT250X437	1/4"	7/16"	3/32"	#24	50'
SU/APT250X500	1/4"	1/2"	1/8"	#26	50'
SU/APT312X375	5/16"	3/8"	1/32"		50'
SU/APT312X437	5/16"	7/16"	1/16"	#18	50'
SU/APT312X500	5/16"	1/2"	3/32"	#35	50'
SU/APT375X500	3/8"	1/2"	1/16"		50'
SU/APT375X562	3/8"	9/16"	3/32"	#36	50'
SU/APT375X625	3/8"	5/8"	1/8"	#73	50'
SU/APT375X750	3/8"	3/4"	3/16"		50'
SU/APT500X750	1/2"	3/4"	1/8"	#82	50'
SU/APT500X875	1/2"	7/8"	3/16"	#88	50'
SU/APT625X750	5/8"	3/4"	1/16"		50'
SU/APT625X812	5/8"	13/16"	3/32"		50'
SU/APT625X875	5/8"	7/8"	1/8"		50'
SU/APT625X1000	5/8"	1"	3/16"	#89	50'
SU/APT750X1062	3/4"	1-1/16"	5/32"		50'
SU/APT750X1156	3/4"	1-5/32"	13/64"		50'
SU/APT750X1000	3/4"	1-5/32"	1/8"		50'
SU/APT750X1125	3/4"	1"	3/16"	#191	50'
SU/APT1000X1250	1"	1-1/4"	1/4"	#90	50'
SU/APT1000X1375	1"	1-3/8"	3/16"	#92	50'

TUBE: 3-A* Class VI, FDA TPR

RECOMMENDED CLEANING: Ethylene Oxide, Autoclave, Gamma **TEMP. RANGE:** -40° to +275°F

Specific Gravity (ASTM D792)

Durometer, Shore A (SSEC.ASTM D2240)

Tensile Strength at Break, psi (ASME D-412)

Tensile Elongation-Across Flow (Break, 73°F), ASTM D412, ISO 37 Tensile Stress-Across Flow (100% Strain, 73°F), ASTM D412, ISO 37 Elongation, % (ASTM D-412)

Tensile Set (73°F) ASTM D412, ISO 2285

Tear Strength-Across Flow (73°F) ASTM D624

Compression Set (72°F, 22.0 Hours) ASTM D395B

*The 3-A 62-02 standard applies only to assemblies of 3/4" diameter and larger.

Brittle Point, (ASTM D-789)

Low Temp. Flex at -40

Heat Resistance

Regulatory USP Class VI, EU2003/11/EC (RoHS Compliant)

0.952
70
540 psi
290%
290%
37
8%
137 lbf/in
17%
-76°F
Passed
275°F



Phthalate Free

APF is a **Phthalate (DEHP) FREE** vinyl tubing. Designed to be softer for use with laboratory equipment and vacuum lines. It also addresses the concerns of REACH compliance and meets USP Class VI testing.

Features:

- Softness and Excellent Flexibility
- Superior Biocompatibility
- Phthalate (DEHP) FREE

Applications:

- Biopharmaceutical
- General Laboratory
- Incubators
- Vacuum Pumps
- Condensers
- Desiccators
- Drain Lines
- Gas Lines

Packaging:

- Continuous Coils
- Pre-cut Lengths
- Custom Assemblies

Certification:

- USP Class VI
- BSE/TSE Compliant
- RoHS, REACH, 3-A* Compliant

MODEL	I.D.	O.D.	LENGTH
SU/APF032X093	1/32"	3/32"	50' / 100'
SU/APF063X125	1/16"	1/8"	50' / 100'
SU/APF062X187	1/16"	3/16"	50' / 100'
SU/APF093X156	3/32"	5/32"	50' / 100'
SU/APF093X218	3/32"	7/32"	50' / 100'
SU/APF125X187	1/8"	3/16"	50' / 100'
SU/APF125X250	1/8"	1/4"	50' / 100'
SU/APF156X218	5/32"	7/32"	50' / 100'
SU/APF187X312	3/16"	5/16"	50' / 100'
SU/APF187X375	3/16"	3/8"	50' / 100'
SU/APF187X437	3/16"	7/16"	50' / 100'
SU/APF187X562	3/16"	9/16"	50' / 100'
SU/APF250X375	1/4"	3/8"	50' / 100'
SU/APF250X500	1/4"	1/2"	50' / 100'
SU/APF250X437	1/4"	7/16"	50' / 100'
SU/APF250X625	1/4"	5/8"	50' / 100'
SU/APF312X500	5/16"	1/2"	50' / 100'
SU/APF312X562	5/16"	9/16"	50' / 100'
SU/APF312X625	5/16"	5/8"	50' / 100'
SU/APF375X500	3/8"	1/2"	50' / 100'
SU/APF375X625	3/8"	5/8"	50' / 100'
SU/APF375X875	3/8"	7/8"	50' / 100'
SU/APF437X625	7/16"	5/8"	50' / 100'
SU/APF437X687	7/16"	11/16"	50' / 100'
SU/APF500X625	1/2"	5/8"	50' / 100'
SU/APF500X750	1/2"	3/4"	50' / 100'
SU/APF500X1125	1/2"	1-1/8"	50' / 100'
SU/APF625X1375	5/8"	1-3/8"	50' / 100'
SU/APF750X1000	3/4"	1"	50' / 100'
SU/APF750X1500	3/4"	1-1/2"	50' / 100'

BE: 3 A* Class VI, FDA PVC

RECOMMENDED CLEANING: Ethylene Oxide, Autoclave, Gamma

MODEL	TEST METHOD	VALUE
Specific Gravity	ASTM D792	1.16
Color	Clear	
Hardness	ASTM D2240	58 Shore A
Tensile Strength	ASTM D412	1700 psi
Ultimate Elongation %	ASTM D412	420%
Melt Temperature	320°F	
Brittle Temperature, Degrees	ASTM D746	-127° F
Water Absorption, 24 Hours @72°F	ASTM D570	0.11% Wt. Gain



Single-Use PETG Bottles and Cap Assemblies

Ace Sanitary provides completely customizable assembly solutions in our Class 7 cleanroom facility using USP Class VI compliant materials. Clean packed and ready to process with optional gamma irradiation services for bottles and cap assemblies. Please contact your Ace Sanitary sales representative for more details, additional sizes, or to configure your bottle assembly.

FEATURES

- Bottles with caps come individually bagged, packs, or cases
- Multiple bottle sizes allow for process-specific flexibility
- Cap assemblies are available in 2 and 3 port configurations with 38-430 neck sizes which can be used on most commercially available bottles
- Cap assemblies in customized size, length, connections, components, with notched dip tubes
- Cap assemblies come individually double bagged and process ready with labels on the inner bag
- Gamma Irradiation 25kGy to 45kGy for microbial control

APPLICATIONS

Production, Cleanroom, Sampling and Storage, Laboratory, Environmental, Life Sciences

CERTIFICATIONS

USP Class VI, ADFC Animal Derived Component Free, RoHS, USP 87, DEHP Phthalate Free, BPA Free, Latex Free, Non-Pyrogenic, Non-Toxic, DNase/RNase-Free



Single-Use PETG Bottles

PETG Bottle Part Number	Description
SU/PETG125ML	125ML (4oz) PETG Bottle Solid PP Cap
SU/PETG250ML	250ML (8oz) PETG Bottle Solid PP Cap
SU/PETG500ML	500ML (16oz) PETG Bottle Solid PP Cap
SU/PETG1L	1L (32oz) PETG Bottle Solid PP Cap
SU/PETG125ML-PK24	125ML (4oz) PETG Bottle Solid PP Cap Pack of 24
SU/PETG250ML-PK30	250ML (8oz) PETG Bottle Solid PP Cap Pack of 30
SU/PETG500ML-PK24	500ML (16oz) PETG Bottle Solid PP Cap Pack of 24
SU/PETG1L-PK12	1L (32oz) PETG Bottle Solid PP Cap Pack of 12
SU/PETG125ML-CS96	125ML (4oz) PETG Bottle Solid PP Cap Case of 96
SU/PETG250ML-CS60	250ML (8oz) PETG Bottle Solid PP Cap Case of 60
SU/PETG500ML-CS24	500ML (16oz) PETG Bottle Solid PP Cap Case of 48
SU/PETG1L-CS24	1L PETG (32oz) Bottle Solid PP Cap Case of 24

Gamma Irradiated PETG Bottle Part Number	Description
SU/PETG125ML-GI	125ML (4oz) PETG Bottle Solid PP Cap Gamma Irradiated
SU/PETG250ML-GI	250ML (8oz) PETG Bottle Solid PP Cap Gamma Irradiated
SU/PETG500ML-GI	500ML (16oz) PETG Bottle Solid PP Cap Gamma Irradiated
SU/PETG1L-GI	1L (32oz) PETG Bottle Solid PP Cap Gamma Irradiated
SU/PETG125ML-PK24-GI	125ML (4oz) PETG Bottle Solid PP Cap Pack of 24 Gamma Irradiated
SU/PETG250ML-PK30-GI	250ML (8oz) PETG Bottle Solid PP Cap Pack of 30 Gamma Irradiated
SU/PETG500ML-PK24-GI	500ML (16oz) PETG Bottle Solid PP Cap Pack of 24 Gamma Irradiated
SU/PETG1L-PK12-GI	1L (32oz) PETG Bottle Solid PP Cap Pack of 12 Gamma Irradiated
SU/PETG125ML-CS96-GI	125ML (4oz) PETG Bottle Solid PP Cap Case of 96 Gamma Irradiated
SU/PETG250ML-CS60-GI	250ML (8oz) PETG Bottle Solid PP Cap Case of 60 Gamma Irradiated
SU/PETG500ML-CS24-GI	500ML (16oz) PETG Bottle Solid PP Cap Case of 48 Gamma Irradiated
SU/PETG1L-CS24-GI	1L PETG (32oz) Bottle Solid PP Cap Case of 24 Gamma Irradiated

Additional PP Caps Part Number	Description
SU/CAP38430PP	Solid Cap, PP, 38-430 Neck
SU/CAP38430PP-GI	Solid Cap PP, 38-430 Neck Gamma Irradiated



Single-Use PETG Cap Assemblies

Ace Sanitary provides completely customizable assembly solutions in our Class 7 cleanroom facility using USP Class VI compliant materials. Bottles and cap assemblies are also available in multiple brand materials, sizes, connections with no minimum quantities. Clean packed and ready to process with optional gamma irradiation services for bottles and cap assemblies. Please contact your Ace Sanitary sales representative for more details, additional sizes, or to configure your bottle assembly.

FEATURES

- Cap assemblies come individually double bagged and process ready with labels on the inner bag
- Multiple bottle sizes allow for process-specific flexibility
- Cap assemblies are available in 2 and 3 port configurations with 38-430 neck sizes which can be used on most commercially available bottles
- Cap assemblies in customized size, length, connections, components, with notched dip tubes
- Gamma Irradiation 25kGy to 45kGy for microbial control

APPLICATIONS

Production, Cleanroom, Sampling and Storage, Laboratory, Environmental, Life Sciences

CERTIFICATIONS

USP Class VI, ADFC Animal Derived Component Free, RoHS, USP 87, DEHP Phthalate Free, BPA Free, Latex Free, Non-Pyrogenic, Non-Toxic, DNase/RNase-Free



Multiple end style options are available.

Single-Use Cap Assemblies

Part Number	Capacity	Tubing Material	Tubing Length	Cap Size	Connections	Tubing Size
SU/AWT125MLB2PC-GI	125mL, 4oz.	TPE Weldable	Port 1: 18" Port 2: 3"	38-430	Port 1: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/AWT250MLB2PC-GI	250mL, 8oz.	TPE Weldable	Port 1: 18" Port 2: 3"	38-430	Port 1: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/AWT500MLB2PC-GI	500mL, 16oz.	TPE Weldable	Port 1: 18" Port 2: 3"	38-430	Port 1: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/AWT1000MLB2PC-GI	1000mL, 32oz.	TPE Weldable	Port 1: 18" Port 2: 3"	38-430	Port 1: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/AWT125MLB3PC-GI	125mL, 4oz.	TPE Weldable	Port 1: 18" Port 2: 3" Port 3: 18"	38-430	Port 1&3: PP Plug, Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/AWT250MLB3PC-GI	250mL, 8oz.	TPE Weldable	Port 1: 18" Port 2: 3" Port 3: 18"	38-430	Port 1&3: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/AWT500MLB3PC-GI	500mL, 16oz.	TPE Weldable	Port 1: 18" Port 2: 3" Port 3: 18"	38-430	Port 1&3: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/AWT1000MLB3PC-GI	1000mL, 32oz.	TPE Weldable	Port 1: 18" Port 2: 3" Port 3: 18"	38-430	Port 1&3: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/SCT125MLB2PC-GI	125mL, 4oz.	Plt. Cured Silicone	Port 1: 18" Port 2: 3"	38-430	Port 1: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/SCT250MLB2PC-GI	250mL, 8oz.	Plt. Cured Silicone	Port 1: 18" Port 2: 3"	38-430	Port 1: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/SCT500MLB2PC-GI	500mL, 16oz.	Plt. Cured Silicone	Port 1: 18" Port 2: 3"	38-430	Port 1: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/SCT1000MLB2PC-GI	1000mL, 32oz.	Plt. Cured Silicone	Port 1: 18" Port 2: 3"	38-430	Port 1: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/SCT125MLB3PC-GI	125mL, 4oz.	Plt. Cured Silicone	Port 1: 18" Port 2: 3" Port 3: 18"	38-430	Port 1&3: PP Plug, Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/SCT250MLB3PC-GI	250mL, 8oz.	Plt. Cured Silicone	Port 1: 18" Port 2: 3" Port 3: 18"	38-430	Port 1&3: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/SCT500MLB3PC-GI	500mL, 16oz.	Plt. Cured Silicone	Port 1: 18" Port 2: 3" Port 3: 18"	38-430	Port 1&3: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/SCT1000MLB3PC-GI	1000mL, 32oz.	Plt. Cured Silicone	Port 1: 18" Port 2: 3" Port 3: 18"	38-430	Port 1&3: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/APT125MLB2PC-GI	125mL, 4oz.	TPV Biological Pump	Port 1: 18" Port 2: 3"	38-430	Port 1: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/APT250MLB2PC-GI	250mL, 8oz.	TPV Biological Pump	Port 1: 18" Port 2: 3"	38-430	Port 1: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/APT500MLB2PC-GI	500mL, 16oz.	TPV Biological Pump	Port 1: 18" Port 2: 3"	38-430	Port 1: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/APT1000MLB2PC-GI	1000mL, 32oz.	TPV Biological Pump	Port 1: 18" Port 2: 3"	38-430	Port 1: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/APT125MLB3PC-GI	125mL, 4oz.	TPV Biological Pump	Port 1: 18" Port 2: 3" Port 3: 18"	38-430	Port 1&3: PP Plug, Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/APT250MLB3PC-GI	250mL, 8oz.	TPV Biological Pump	Port 1: 18" Port 2: 3" Port 3: 18"	38-430	Port 1&3: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/APT500MLB3PC-GI	500mL, 16oz.	TPV Biological Pump	Port 1: 18" Port 2: 3" Port 3: 18"	38-430	Port 1&3: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"
SU/APT1000MLB3PC-GI	1000mL, 32oz.	TPV Biological Pump	Port 1: 18" Port 2: 3" Port 3: 18"	38-430	Port 1&3: PP Plug Port 2: Acro 37 .2um Filter	3/16"X3/8"

Connection Types

Ace Sanitary provides:

CUSTOM SINGLE-USE SOLUTIONS

- No Minimum Order Quantity
- Fast Lead Times
- Kitting & Assembly of Customer Supplies Components
- Gamma Irradiation

ROBUST QUALITY PROGRAMS

- Manufacturing Quality Certification Program
- Vendor Quality Management Program
- Multiple Source Component Qualifications
- Compendia Documentation

CUSTOM SINGLE-USE SOLUTIONS

Increasing global demand for new biologics, vaccines and cell therapies is driving manufacturers to replace traditional stainless equipment with single-use systems, which consist of plastic-based processing equipment used in the development and production of biopharmaceutical drugs.

BENEFITS OF SINGLE-USE

Operational Efficiencies:

Increases flexibility and faster batch turnaround.

Cost Effectiveness:

Minimizes cleaning and validation requirements.

Economic Advantages:

Reduces capital expenditures and facility footprints.

Safety and Quality:

Improves sterility assurance while decreasing the risk of cross-contamination and product loss.

Flexibility:

Facilitates multi-drug production and fast product changeover.

Sustainability:

Consumes less water, energy and chemicals when compared to stainless-based processing. Single-use plastic waste is an excellent fuel source for waste-to-energy conversion.

Type & Application



Understanding Single-Use Advantages



Single-use bioprocessing is designed to be flexible, efficient, and effective in the manufacture of drug substances, monoclonal antibodies, vaccines, biosimilars and regenerative medicines. The process is split into two main sections, upstream and downstream.

Along with growing the cell line, the purpose of the upstream process is to scale-up the volume of the target protein or cell from volumes as small as a vial to bioreactors that can be as large as 5,000L.

Once the target specimen has reached a target yield, it turns the corner towards the downstream process. The goal of the downstream line is to clarify, purify and filter the target. Reaching this goal is done with processes such as clarification, viral inactivation, chromatography and various types of filtration. The final step is fill and finish, where the target cell has been grown and purified to the point where it can be used for filling syringes or other devices to give to a patient to start their healing process.

Biopharmaceutical Manufacturing Process

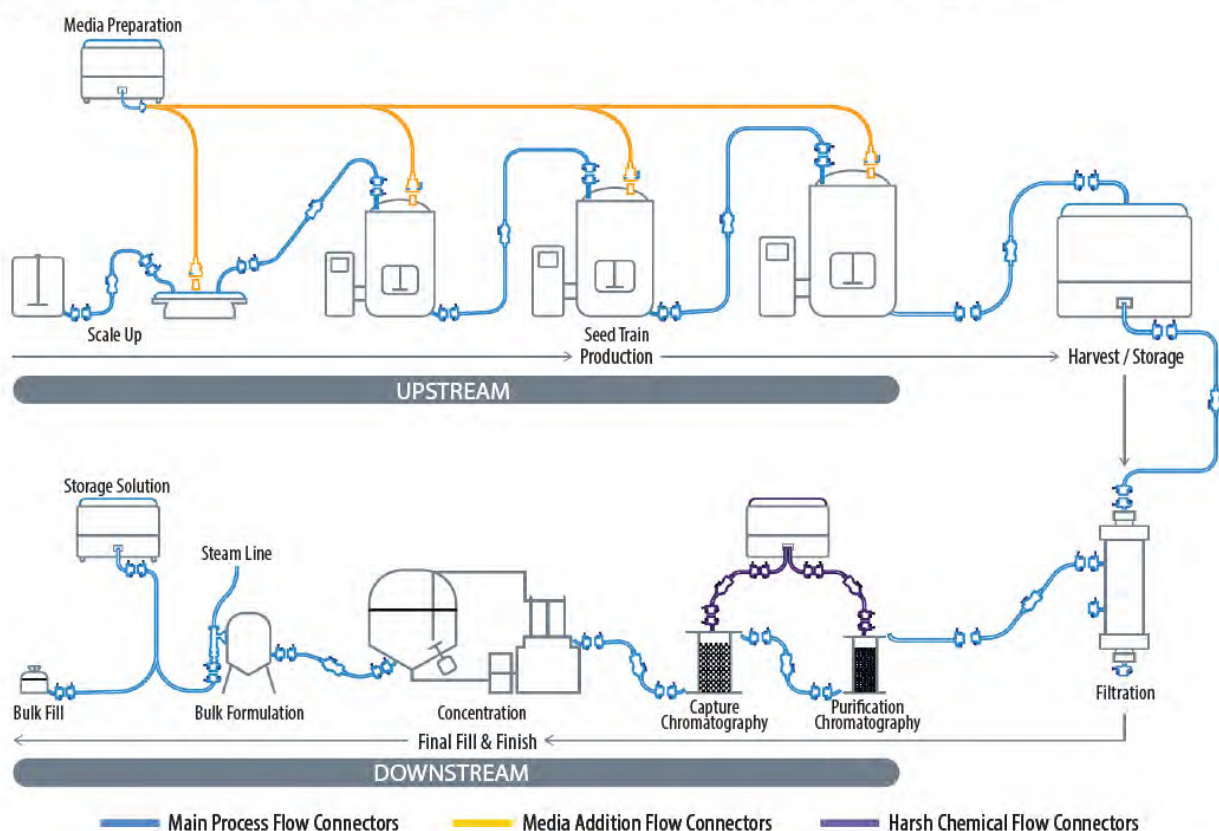
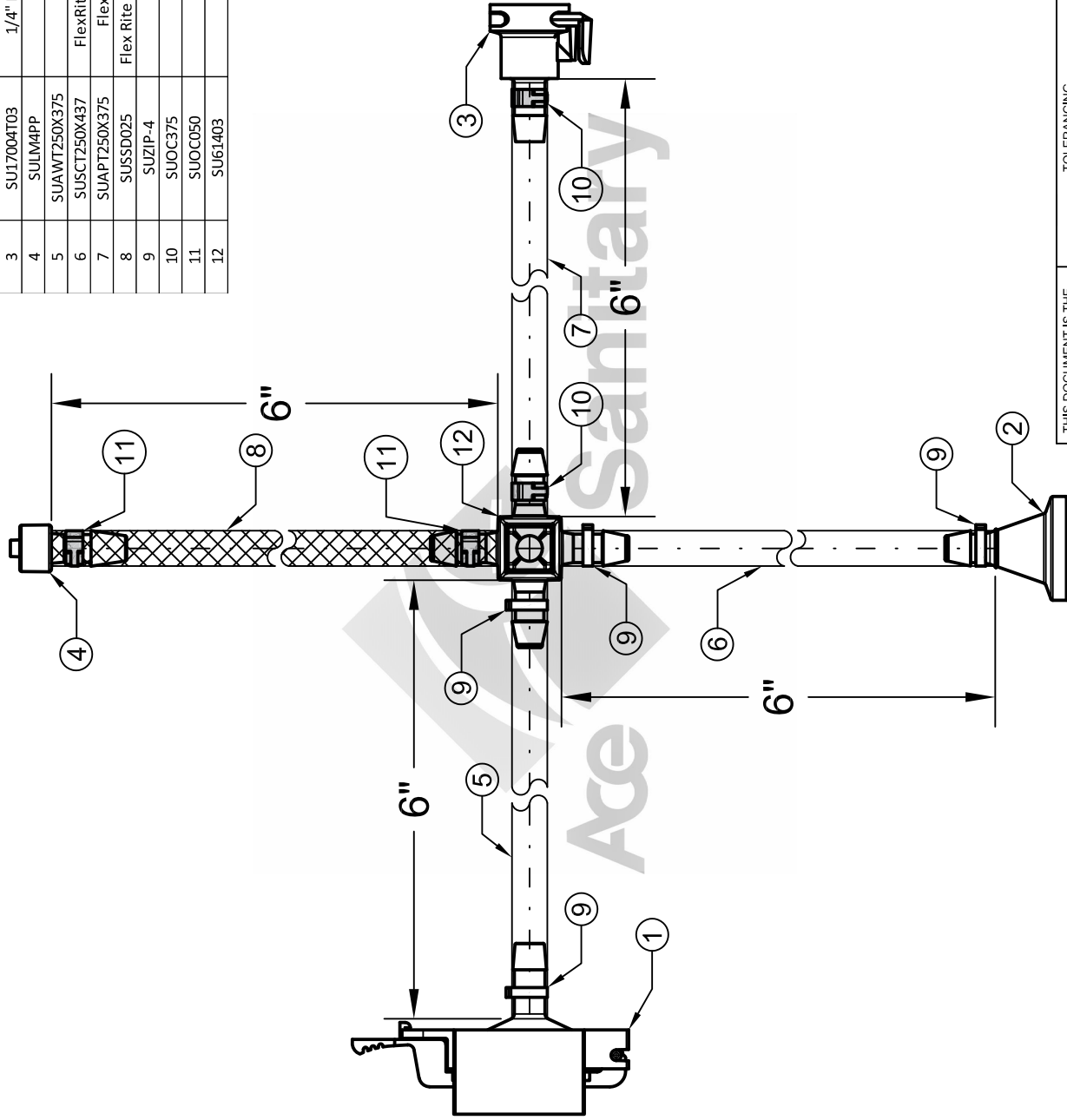


Diagram provided by CPC – Colder Products Company

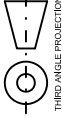
REV.	DESCRIPTION	DATE	NAME
X	X	XX/XX/XX	X

Line No.	Part Number	Description	Qty
1	SU17004	1/4" Hose Barb AseptiQuik G Connector	1
2	SU51645	1/4" Barb X Mini TC PP	1
3	SU17004T03	1/4" Hose Barb Non-Valved In-Line Class V	1
4	SULM4PP	1/4" Male Luer Conn. HB PP	1
5	SUAWT250X375	Flex Rite TPE 1/4"X3/8" OAL 6"	1
6	SUSCT250X437	FlexRite SCT Plt. Cured Silicone 1/4"X 7/16" 6"	1
7	SUAPT250X375	FlexRite Pump Tubing TPR 1/4" X 3/8" 6"	1
8	SUSSD025	Flex Rite Single Braid Silicone Tubing 1/4" X 1/2" 6"	1
9	SUZIP-4	4" Zip Tie	4
10	SUOC375	3/8" OETIKER CLAMP	2
11	SUOC050	1/2" OETIKER CLAMP	2
12	SU61403	1/4" Cross PP	1





Quote # XXXXX
DWG. NO.
SU/Sales_Sample



THIRD ANGLE PROJECTION

SIZE: A
REV: 00
SHEET 1 OF 1

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TOLERANCING
Overall length tolerances for assemblies are:
1/4" on assemblies to 24"
1/2" on assemblies to 25" to 60"
1% on assemblies over 60"
Unless specified otherwise per approved print or Customer PO

BY SIGNING THIS DRAWING, THE USER IS APPROVING THE DESIGN OF THE PRODUCT AS DEPICTED ON THIS DOCUMENT.

CUSTOMER APPROVAL: _____
DATE OF APPROVAL: _____

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		Holmes V	9/27/22

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